

IN THE CLAIMS

Please amend the claims as follows:

1-15. (Canceled)

16. (New) A process for producing a ceramic heater, comprising:  
forming a resistance heating element on a surface of a ceramic substrate;  
dividing the resistance heating element into plural sections;  
measuring resistivities of said plural sections, respectively; and  
trimming each of said plural sections according to a comparison between the  
resistivities of said plural sections.

17. (New) The process for producing a ceramic heater according to claim 16,  
wherein the trimming step includes trimming a side face of the resistance heating  
element.

18. (New) The process for producing a ceramic heater according to claim 16,  
wherein the trimming step includes trimming a surface of the resistance heating  
element.

19. (New) The process for producing a ceramic heater according to claim 16,  
wherein the forming step comprises,  
providing a conductor containing paste layer on the surface of the ceramic substrate,  
and

firing the ceramic substrate with the conductor containing paste layer.

20. (New) The process for producing a ceramic heater according to claim 16,  
wherein said ceramic substrate comprises a nitride ceramic or a carbide ceramic.

21. (New) The process for producing a ceramic heater according to claim 16,  
wherein said ceramic substrate has Ra of 10  $\mu\text{m}$  or less according to JIS B0601.

22. (New) The process for producing a ceramic heater according to claim 16,

wherein the resistance heating element has a thickness of 1 to 30  $\mu\text{m}$ .

23. (New) The process for producing a ceramic heater according to claim 16, wherein the resistance heating element is divided into at least two circuits.

24. (New) The process for producing a ceramic heater according to claim 16, wherein said ceramic substrate has a disc shape and has a diameter of 190 mm or more.

25. (New) The process for producing a ceramic heater according to claim 16, wherein said ceramic substrate has a thickness of 1.5 to 5 mm.